



NATIONAL CENTER FOR COMPLEMENTARY AND ALTERNATIVE MEDICINE

Cancer and Complementary and Alternative Medicine

Key Points

- Complementary and alternative medicine (CAM) is a group of diverse medical and health care systems, practices, and products that are not part of conventional medicine.
- The same scientific evaluation that is used to assess conventional cancer treatments should be used to assess CAM therapies.
- The National Center for Complementary and Alternative Medicine (NCCAM) is sponsoring a number of clinical trials (research studies in people) to study CAM therapies for cancer.
- To ensure a safe and coordinated course of care, people with cancer should inform their health care providers about any CAM therapy that they are currently using or considering.

1. What is complementary and alternative medicine?

Complementary and alternative medicine is a group of diverse medical and health care systems, practices, and products that are not part of conventional (standard) medicine. Conventional medicine is medicine as practiced by holders of M.D. (medical doctor) or D.O. (doctor of osteopathy) degrees and by their allied health professionals, such as nurses, physical therapists, and dietitians.

- Complementary medicine is used *along with* conventional medicine.
- Alternative medicine is used *instead of* conventional medicine.
- Integrative medicine combines standard medicine with CAM practices that have been shown to be effective.

This fact sheet answers some frequently asked questions about the use of CAM therapies and the way that CAM approaches are evaluated, and suggests resources for further information (see “For More Information”).

2. Is CAM widely used?

According to the most recent comprehensive survey on Americans’ use of CAM, 36 percent of U.S. adults are using some form of CAM. When megavitamin therapy

and prayer for health reasons are included in the definition of CAM, that percentage rises to 62 percent. These results are based on the 2002 National Health Interview Survey, which was supported by NCCAM and the National Center for Health Statistics (part of the Centers for Disease Control and Prevention). The survey found that rates of CAM use are especially high among patients with serious illnesses such as cancer.

Several smaller studies of CAM use by cancer patients have been conducted. A study of CAM use in patients with cancer in the July 2000 issue of the *Journal of Clinical Oncology* found that 69 percent of 453 cancer patients had used at least one CAM therapy as part of their cancer treatment. A study published in the December 2004 issue of the *Journal of Clinical Oncology* reported that 88 percent of 102 people with cancer who were enrolled in phase I clinical trials (research studies in people) at the Mayo Comprehensive Cancer Center had used at least one CAM therapy. Of those, 93 percent had used supplements (such as vitamins or minerals), 53 percent had used nonsupplement forms of CAM (such as prayer/spiritual practices or chiropractic care), and almost 47 percent had used both.

A review article in the March 2005 issue of the *Southern Medical Journal* reported that cancer patients take supplements to reduce side effects and organ toxicity, to protect and stimulate their immune systems, or to prevent further cancers or recurrences. Patients frequently see using supplements as a way to take control over their health and increase their quality of life.

Additional information about CAM use among cancer patients can be found in a review article published in *Seminars in Oncology* in December 2002.

3. How are CAM approaches evaluated?

The same rigorous scientific evaluation used to assess conventional cancer treatments should be used for CAM therapies. NCCAM is funding a number of clinical trials to evaluate CAM therapies for cancer.

Conventional cancer treatments are studied for safety and effectiveness through a rigorous scientific process that includes laboratory research and clinical trials with large numbers of patients. Less is known about the safety and effectiveness of complementary and alternative methods to treat cancer, although some CAM therapies have undergone rigorous evaluation.

A small number of CAM therapies, which were originally considered to be purely alternative approaches, are finding a place in cancer treatment—not as cures, but as complementary therapies that may help patients feel better and recover faster. One example is acupuncture. In 1997, a panel of experts at the National Institutes of Health (NIH) Consensus Conference found acupuncture to be effective in managing chemotherapy-associated nausea and vomiting and in controlling pain associated with surgery. In contrast, some approaches, such as the use of laetrile, have been studied and found ineffective or potentially harmful.

4. Is NCCAM sponsoring clinical trials on CAM for cancer?

NCCAM is sponsoring a number of clinical trials to study complementary and alternative treatments for cancer. Some of these trials study the effects of complementary approaches used in addition to conventional treatments, while others compare alternative therapies with conventional treatments. Recent trials include the following:

- Acupuncture to relieve neck and shoulder pain following surgery for head or neck cancer
- Ginger as a treatment for nausea and vomiting caused by chemotherapy
- Massage for the treatment of cancer pain
- Mistletoe extract combined with chemotherapy for the treatment of solid tumors

Patients who are interested in taking part in these or any other clinical trials should talk with their health care provider.

Patients, family members, and health professionals can use the following Web resources to find out about CAM clinical trials:

- The NCCAM Clinical Trials Web page (nccam.nih.gov/clinicaltrials). Describes current clinical trials for cancer and other health conditions. Information on clinical trials is also available through the NCCAM Clearinghouse (see “For More Information”).
- The National Cancer Institute (NCI) PDQ Clinical Trials Database (www.cancer.gov/clinicaltrials). Includes studies of CAM and conventional medicine for cancer. This information is also available through NCI’s Cancer Information Service (see “For More Information” for contact information).

5. What should patients do when using or considering CAM therapies?

Cancer patients who are using or considering CAM should discuss this decision with their health care provider, as they would any therapy. Some complementary and alternative therapies may interfere with standard treatment or may be harmful when used along with standard treatment. The booklet “Thinking About Complementary and Alternative Medicine: A Guide for People with Cancer” discusses choices that people face in making decisions about cancer treatment and includes suggestions on how to talk with health care providers about these choices (see “For More Information”).

As with any medicine or treatment, it is a good idea to learn about the therapy, including whether the results of scientific studies support the claims that are made for it. Some resources for this information are provided in the “For More Information” section.

6. When considering CAM, what questions should patients ask their health care providers?

- What benefits can be expected from this therapy?
- What are the risks associated with this therapy?

- Do the known benefits outweigh the risks?
- What are the potential side effects?
- Will the therapy interfere with conventional treatment?
- Is this therapy part of a clinical trial? If so, who is sponsoring the trial?
- Will the therapy be covered by health insurance?

Further information on evaluating CAM therapies, selecting practitioners, and considering financial issues for CAM treatment is available from NCCAM (see “For More Information”).

References

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For More Information

NCCAM Clearinghouse

The NCCAM Clearinghouse provides information on CAM and on NCCAM, including publications and results of searches of Federal databases of scientific and medical literature. The Clearinghouse does not provide medical advice, treatment recommendations, or referrals to practitioners. Publications include:

- “Thinking About Complementary and Alternative Medicine: A Guide for People with Cancer” (www.cancer.gov/cancertopics/thinking-about-CAM)

- “Are You Considering Using Complementary and Alternative Medicine?”
(nccam.nih.gov/health/decisions)
- “Selecting a Complementary and Alternative Medicine Practitioner”
(nccam.nih.gov/health/practitioner)
- “Consumer Financial Issues in Complementary and Alternative Medicine”
(nccam.nih.gov/health/financial)
- “What’s in the Bottle? An Introduction to Dietary Supplements”
(nccam.nih.gov/health/bottle)

Toll-free in the U.S.: 1-888-644-6226

TTY (for deaf and hard-of-hearing callers): 1-866-464-3615

Web site: nccam.nih.gov

E-mail: info@nccam.nih.gov

National Cancer Institute’s Cancer Information Service

The National Cancer Institute (NCI) is the lead Federal Government agency for cancer research. NCI’s Cancer Information Service can provide answers to questions about cancer, help with quitting smoking, informational materials, and help in using the NCI Web site.

Toll-free in the U.S.: 1-800-4-CANCER (1-800-422-6237)

Web site: www.cancer.gov

E-mail: cancer.gov_staff@mail.nih.gov

PubMed®

A service of the National Library of Medicine (NLM), PubMed contains publication information and (in most cases) abstracts of articles from medical journals. CAM on PubMed, developed jointly by NCCAM and NLM, is a subset of NLM’s PubMed system and focuses on the topic of CAM.

Web site: www.ncbi.nlm.nih.gov/entrez

CAM on PubMed: www.nlm.nih.gov/nccam/camonpubmed.html

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